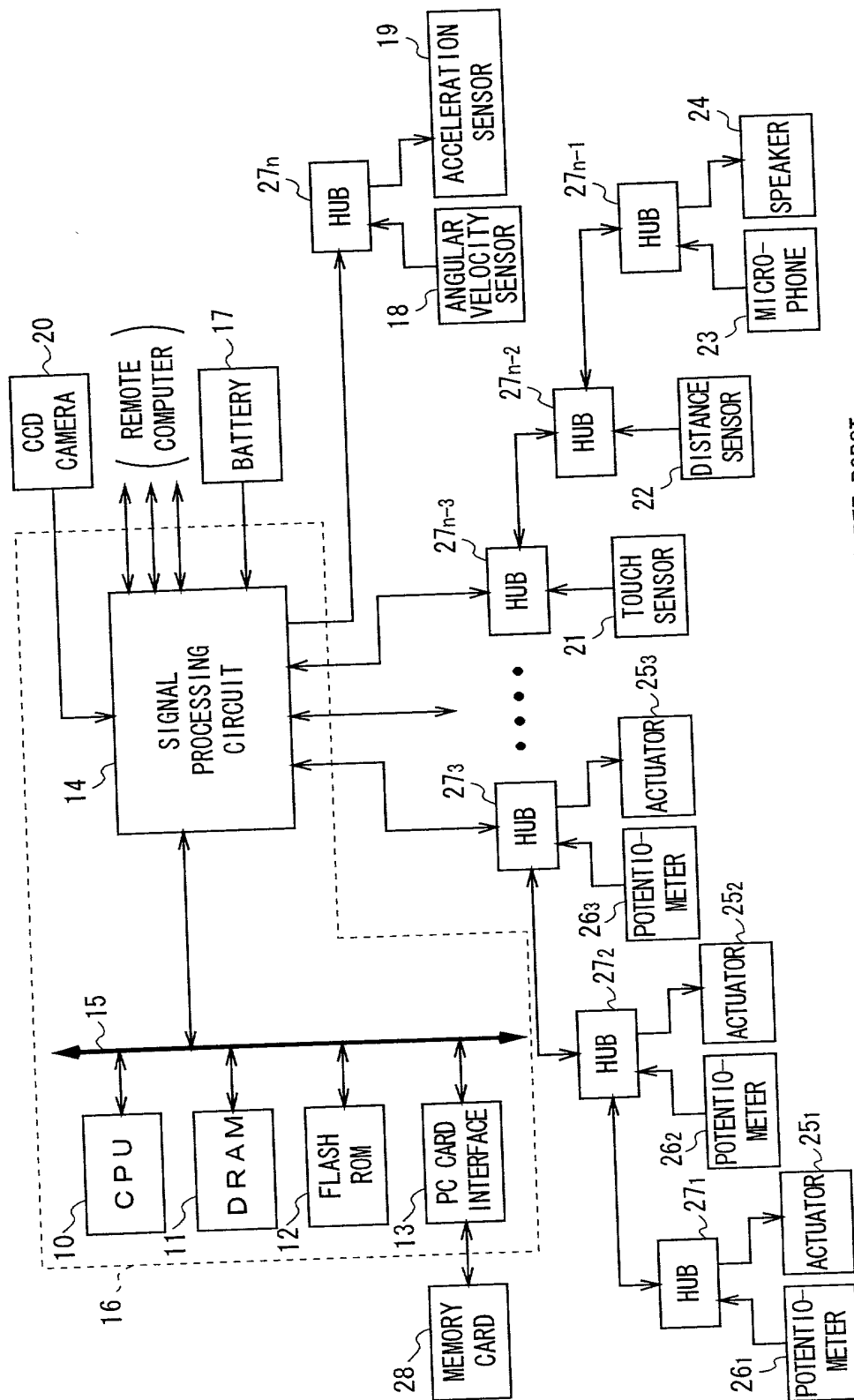


FIG. 1



1 PET ROBOT

FIG. 2

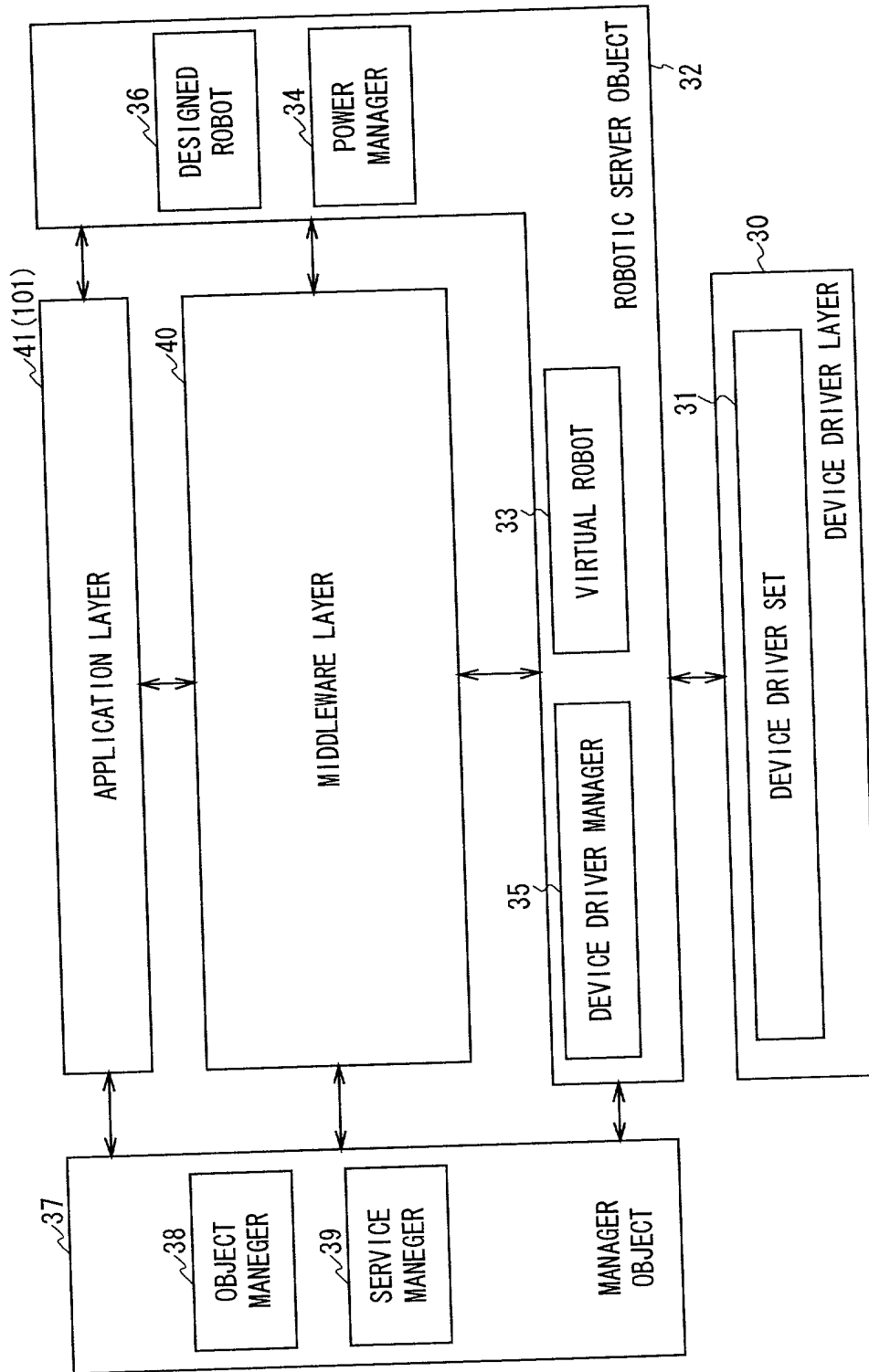


FIG. 3

102220" T2206860

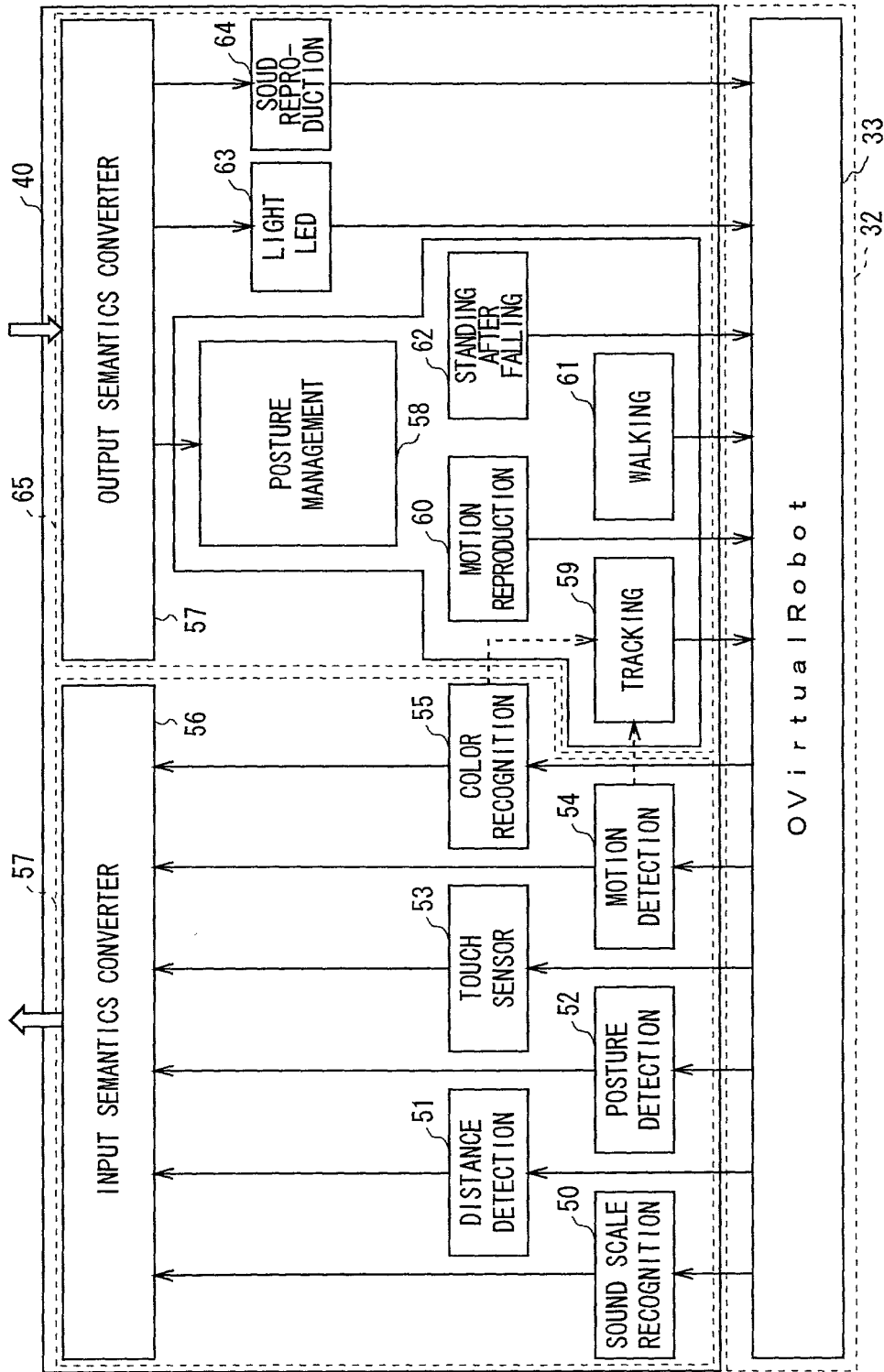


FIG.4

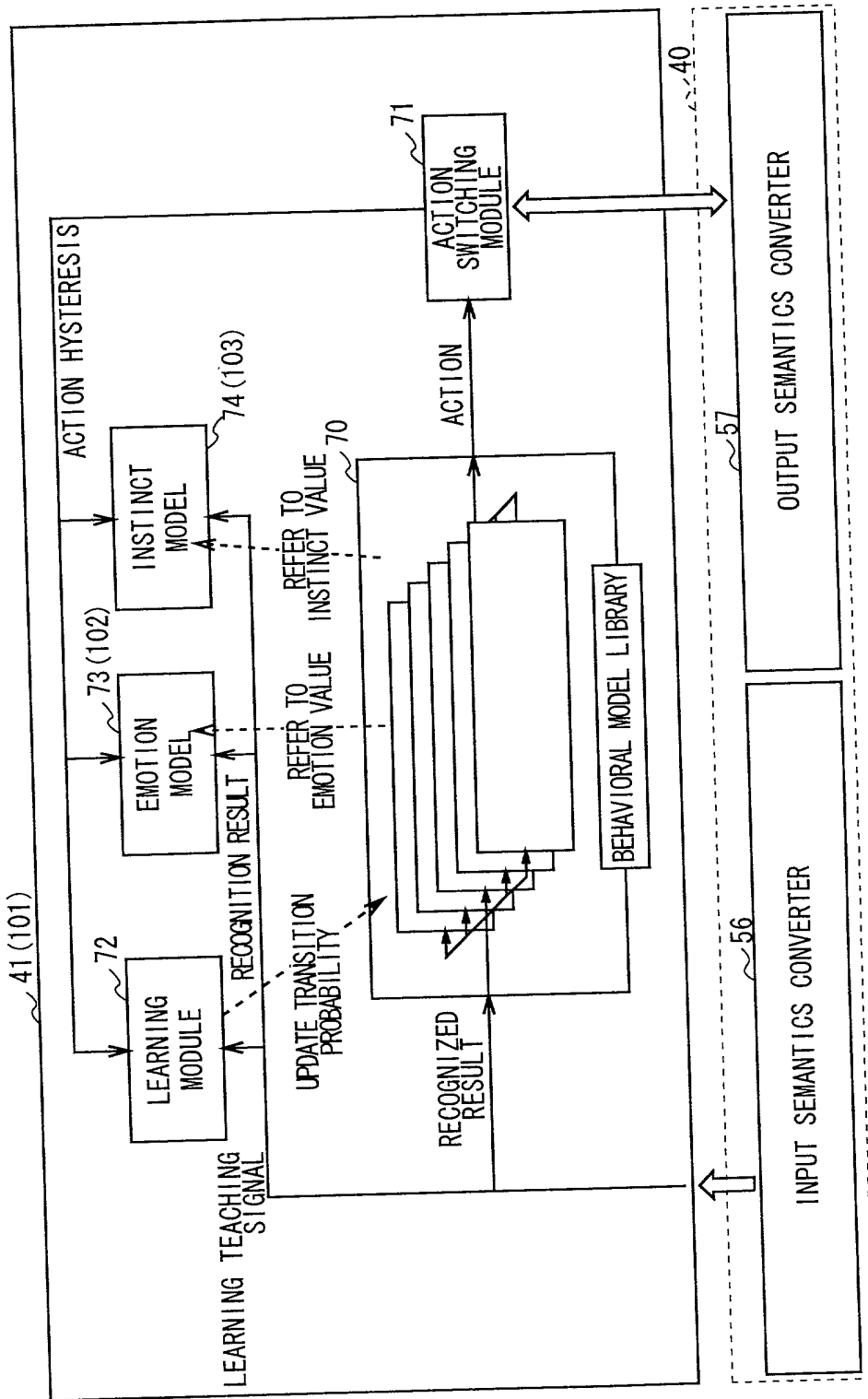


FIG. 5

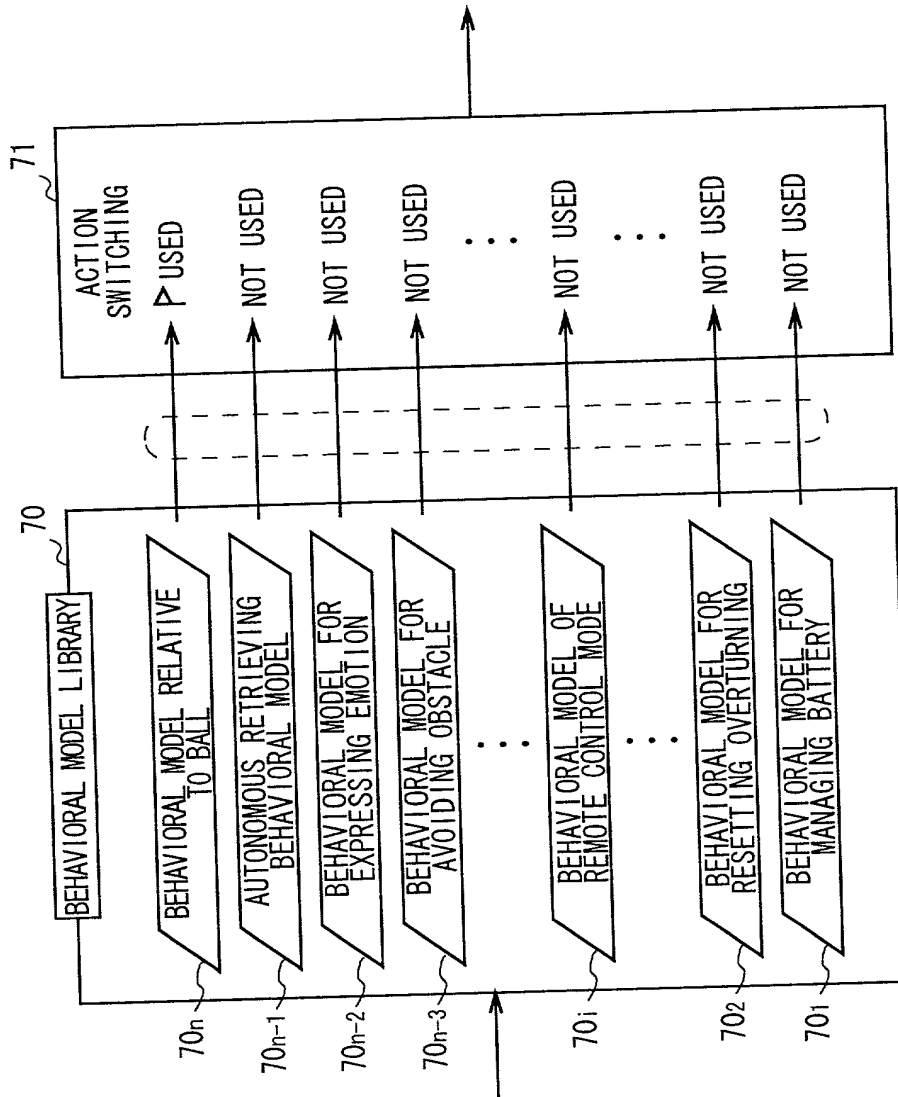


FIG. 6

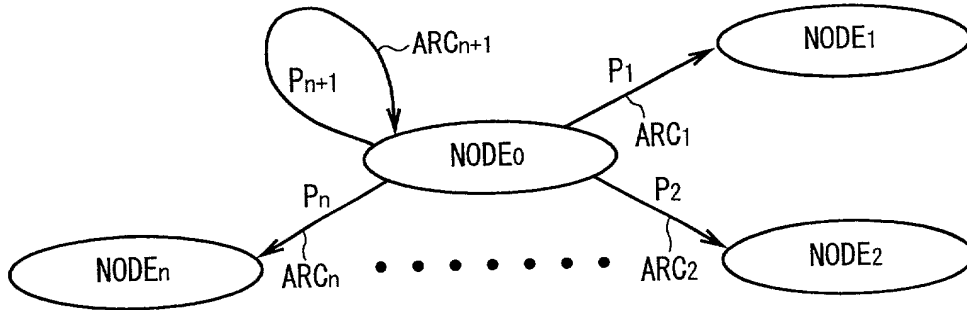


FIG. 7

「TWEETY PERIOD」			
node 100	1st ROW	1st LINE	20%
node 100	1st ROW	nth LINE	30%
⋮			
node 320	3rd ROW	3rd LINE	0%
⋮			
node 720	2nd ROW	4th LINE	15%
⋮			
⋮			
「ADULT PERIOD」			
node 230	1st ROW	3rd LINE	40%
node 230	1st ROW	4th LINE	0%
⋮			
node 520	4th ROW	15th LINE	20%
⋮			
⋮			
⋮			
⋮			
NODE NAME		CHANGING PLACE	TRANSITION PROBABILITY AFTER CHANGE

FIG. 12

TRANSITION TARGET NODE OUTPUT ACTION	INPUT EVENT NAME		DATA NAME		RANGE OF DATA		TRANSITION PROBABILITY TO ANOTHER NODE				
							A	B	C	D	n
node 100							node 120	node 120	node 1000		node 600
							ACTION 1	ACTION 2	MOVE BACK		ACTION 4
1	BALL	SIZE	0, 1000				30%				
2	PAT							40%			
3	HIT							20%			
4	MOTION								50%		
5	OBSTACLE	DISTANCE	0, 100						100%		
6		JOY	50, 100								
7		SUPRISE	50, 100								
8		SADNESS	50, 100								

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FIG. 8

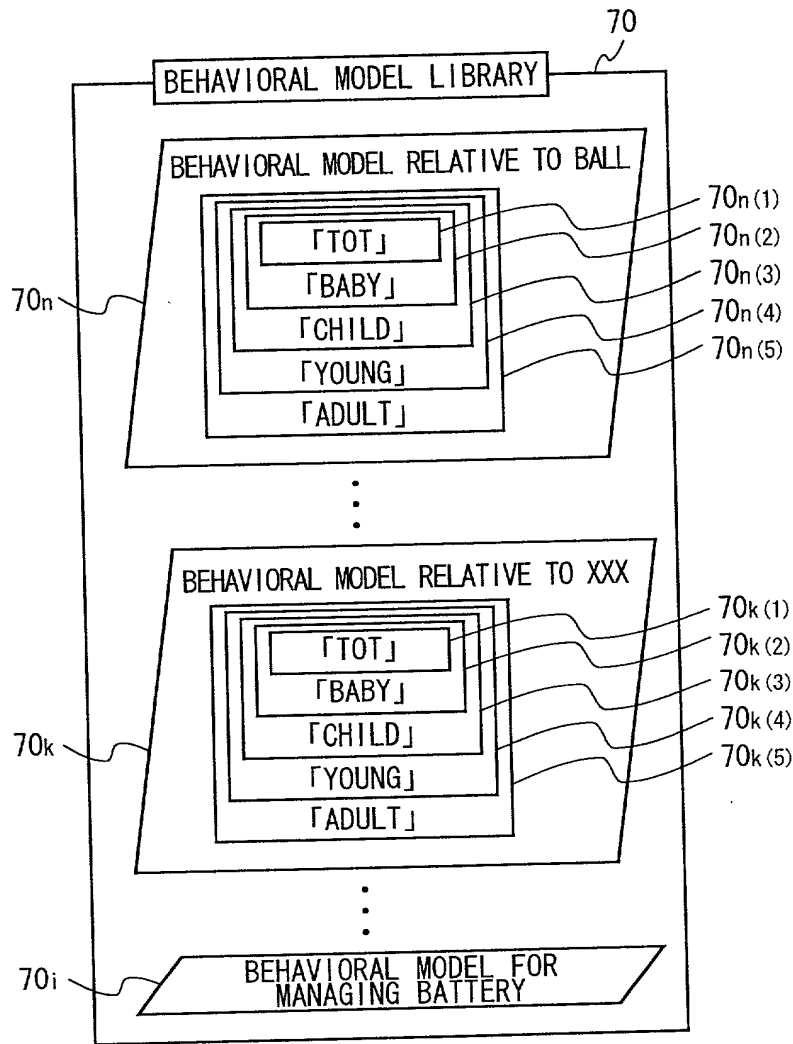


FIG. 9

10/22/07 10:20:56

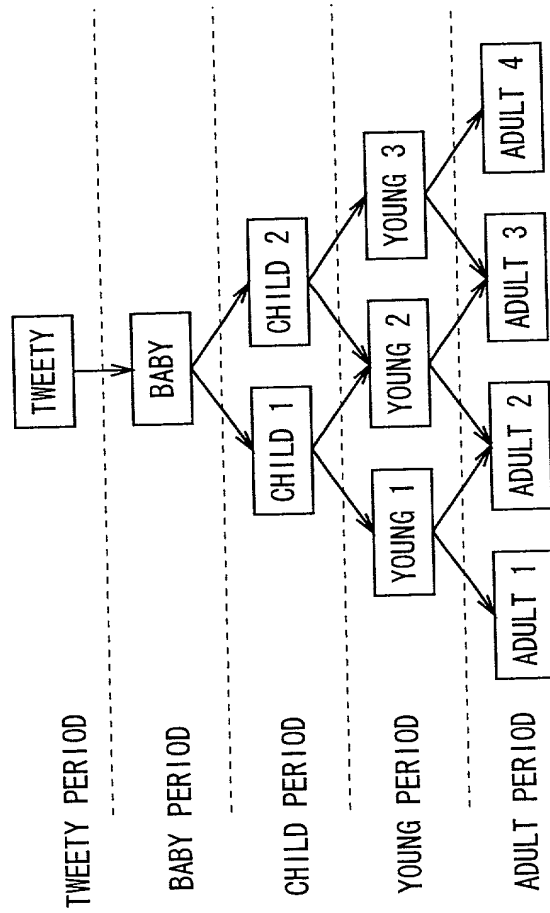


FIG. 10

10/22/07 10:20:36

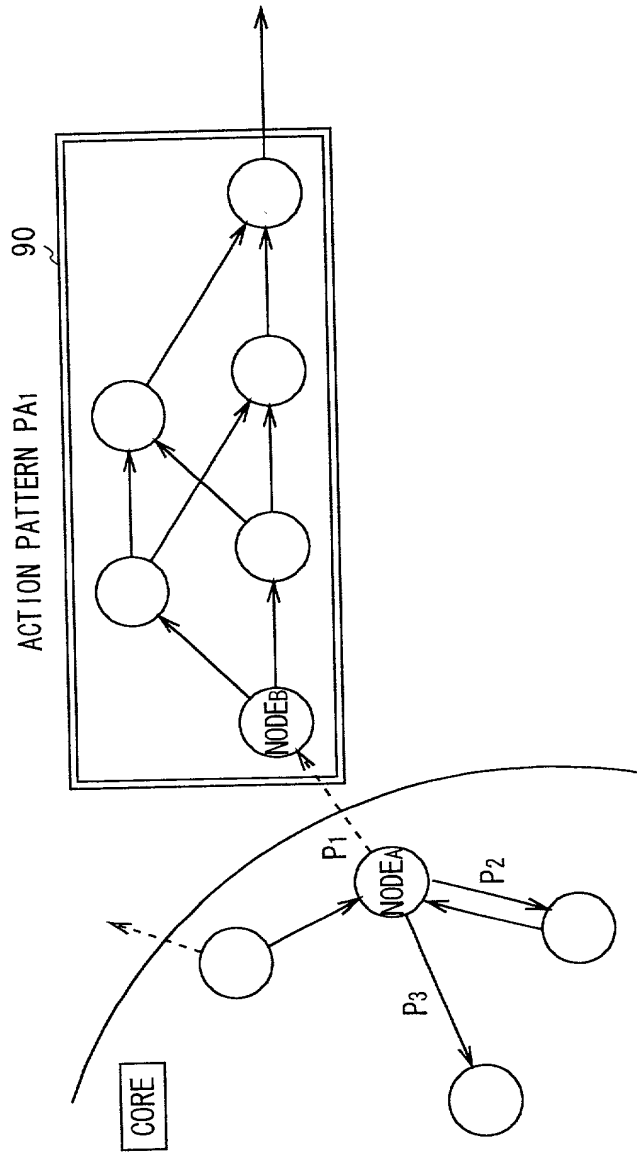


FIG. 11

TO 220 FEB 68

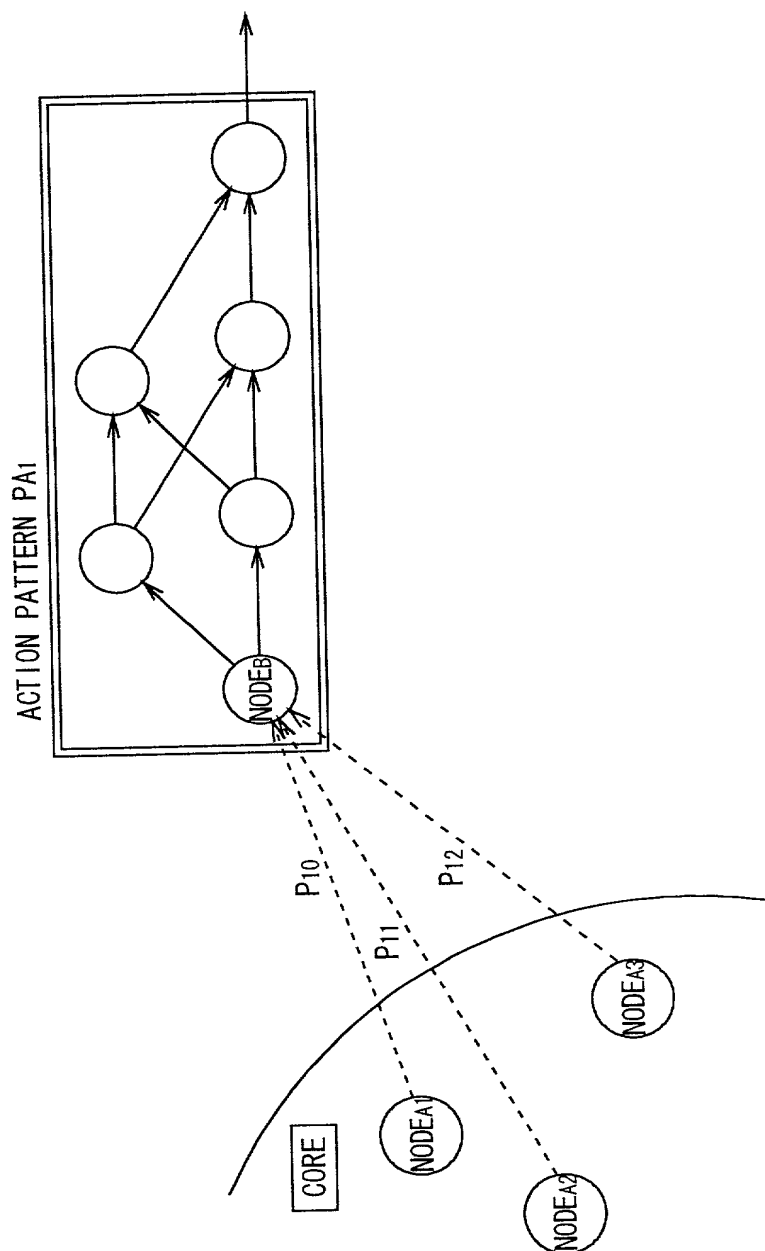


FIG. 13

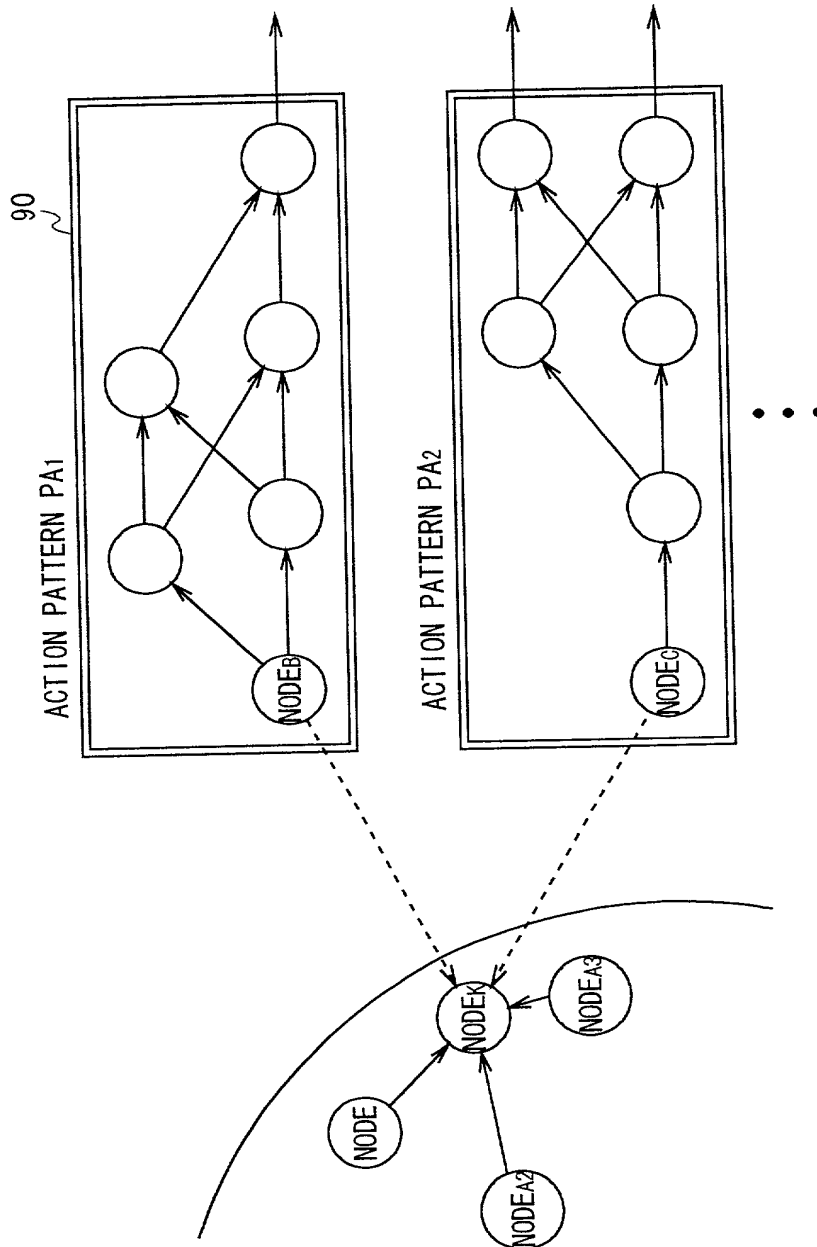


FIG. 14

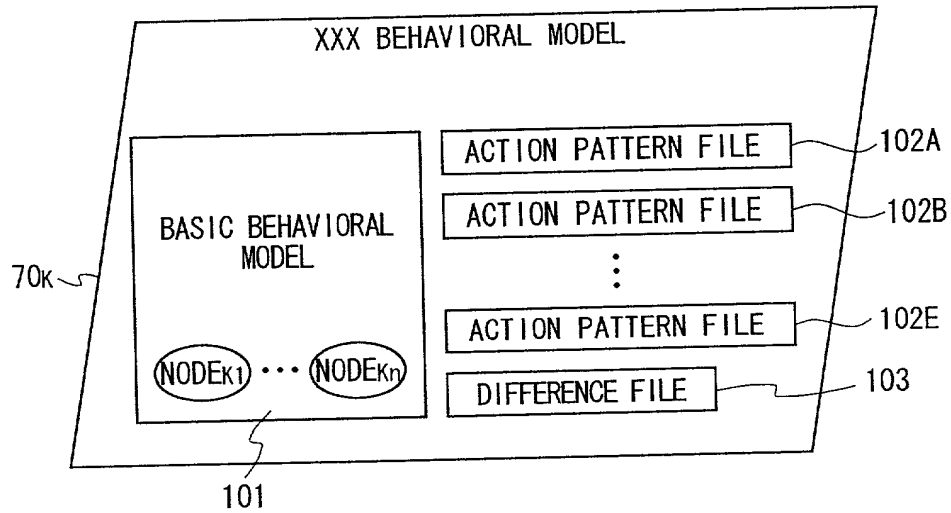


FIG. 15

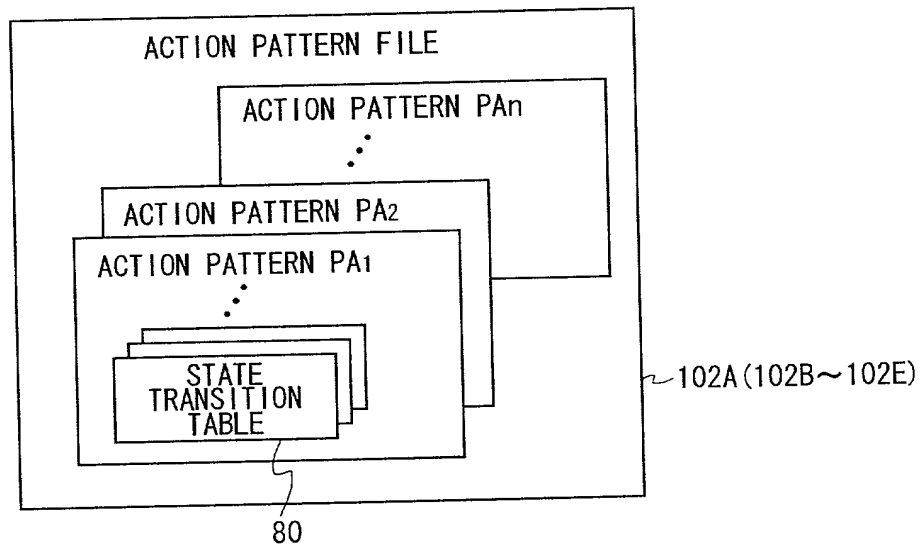


FIG. 16

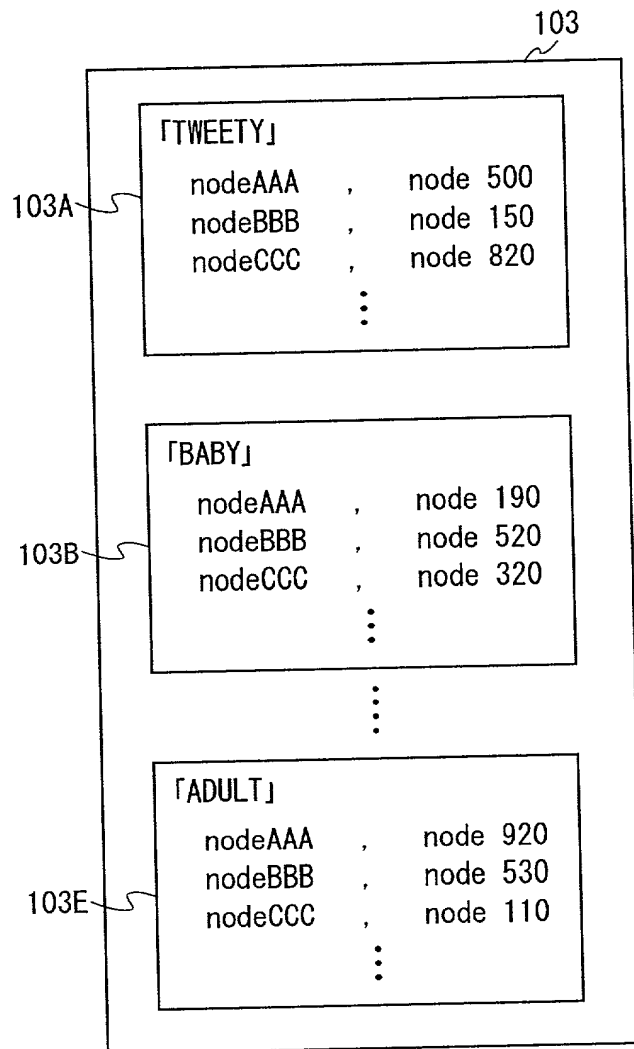
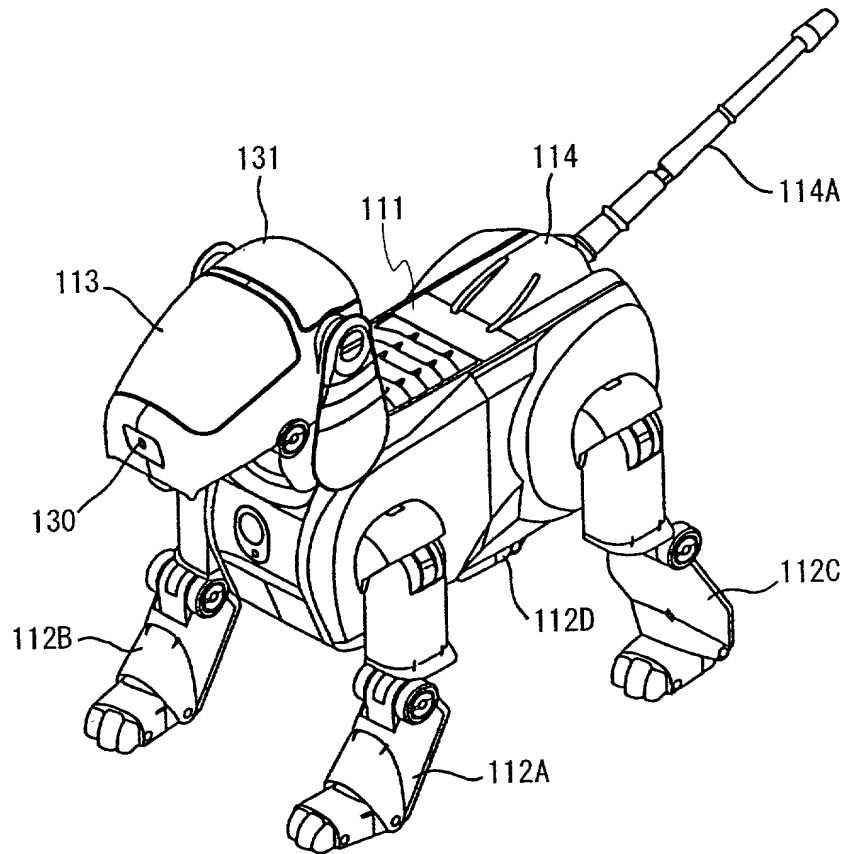


FIG. 17



110 (205) PET ROBOT

FIG. 18

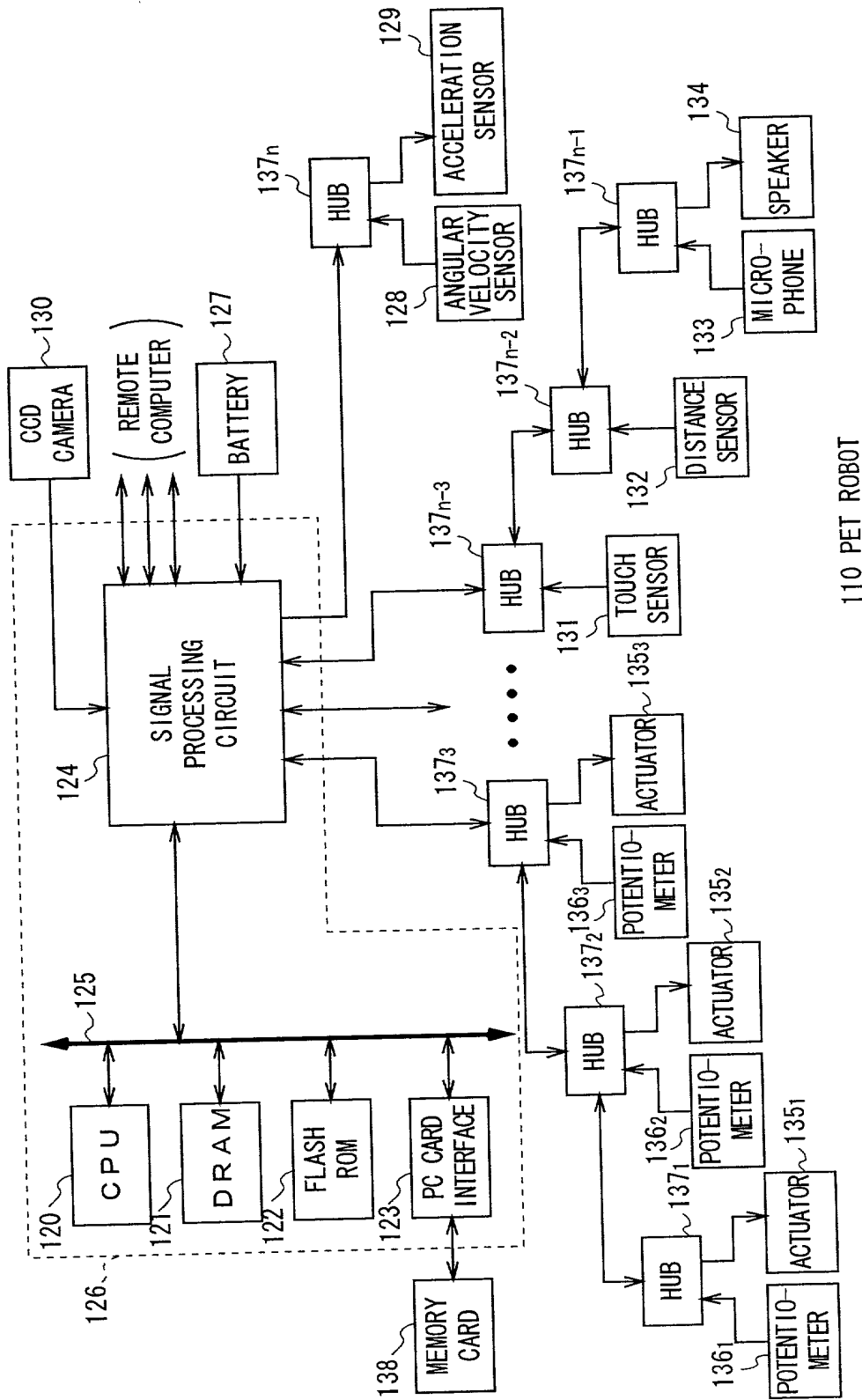


FIG. 19

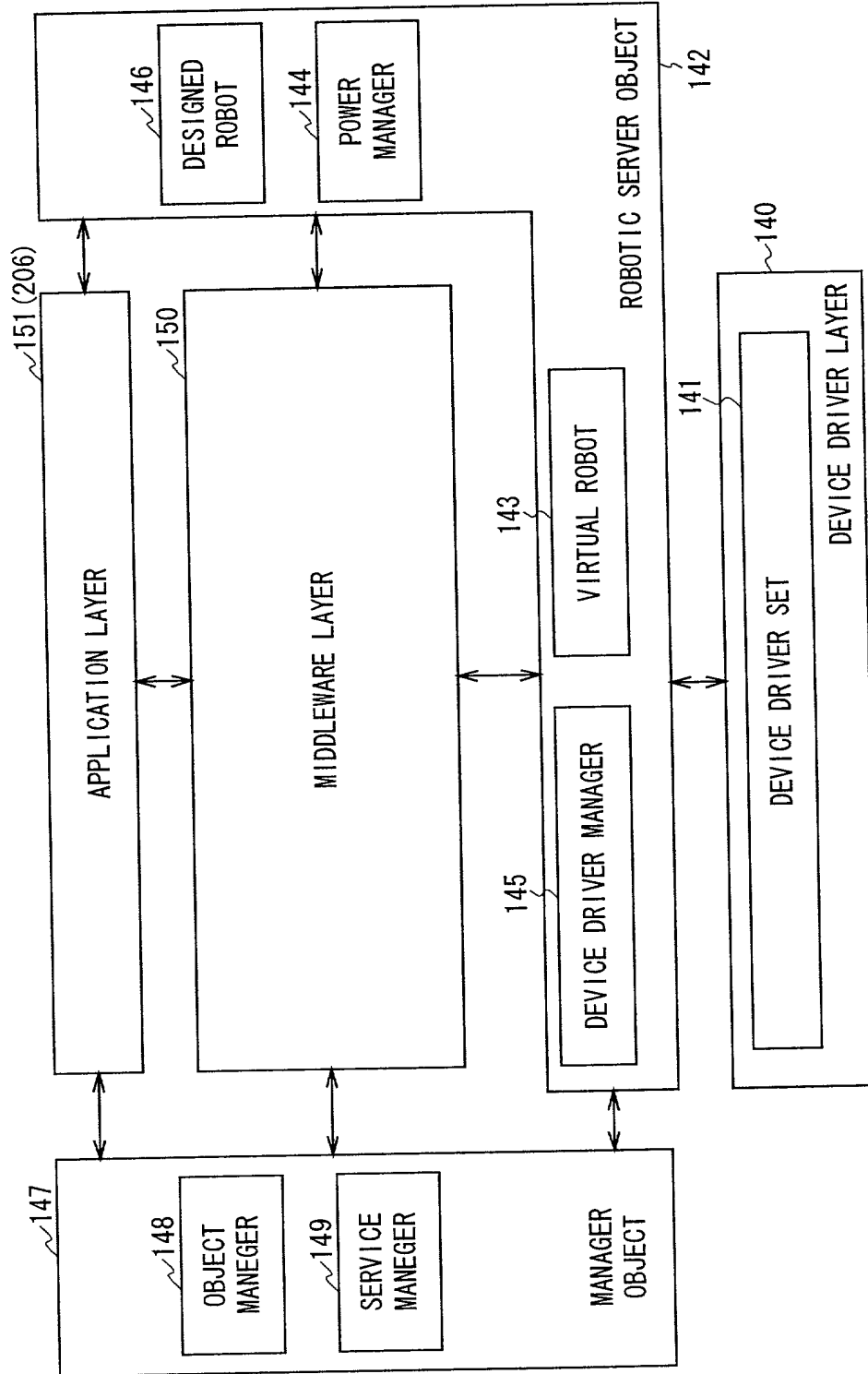


FIG. 20

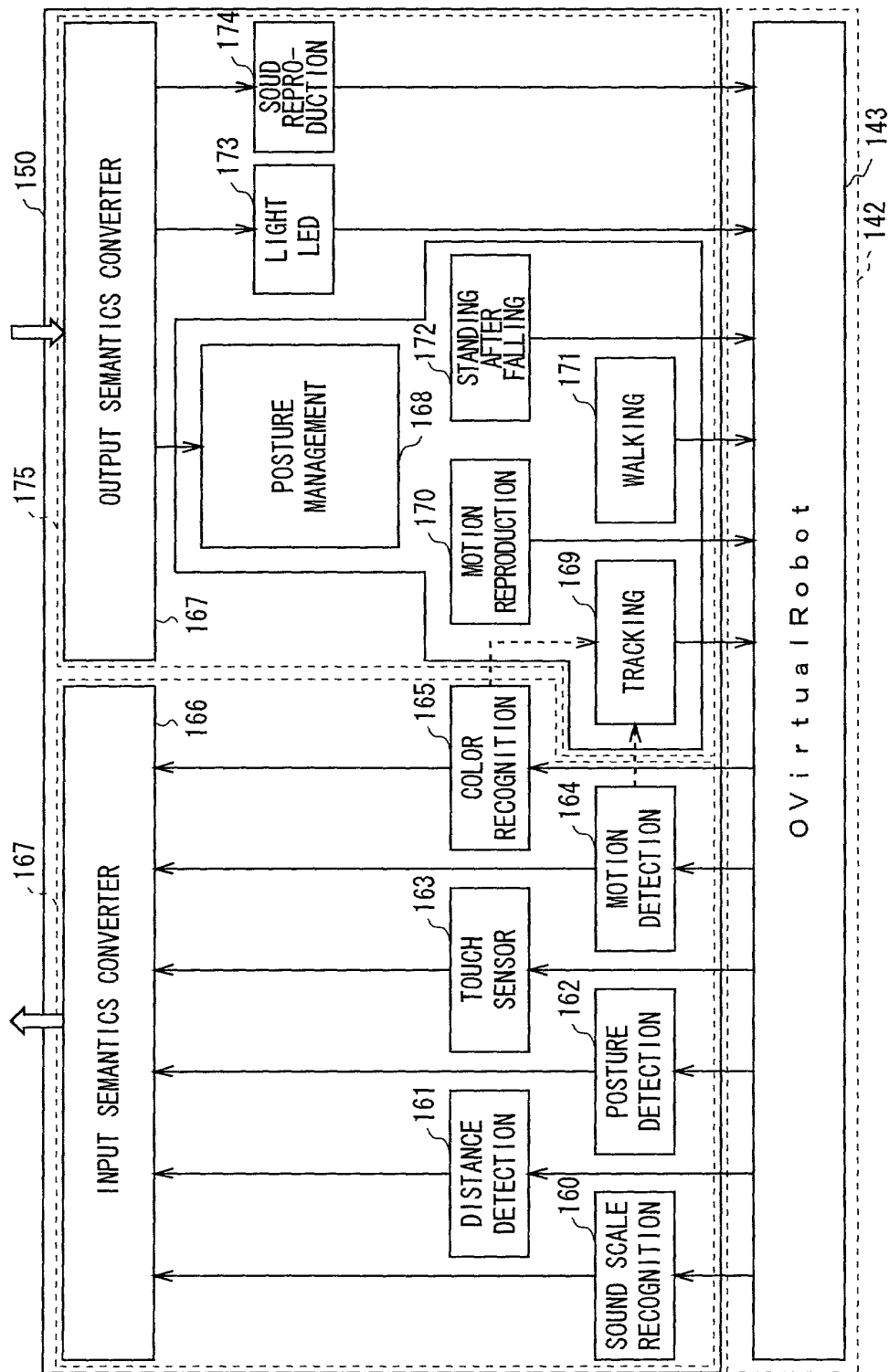


FIG. 21

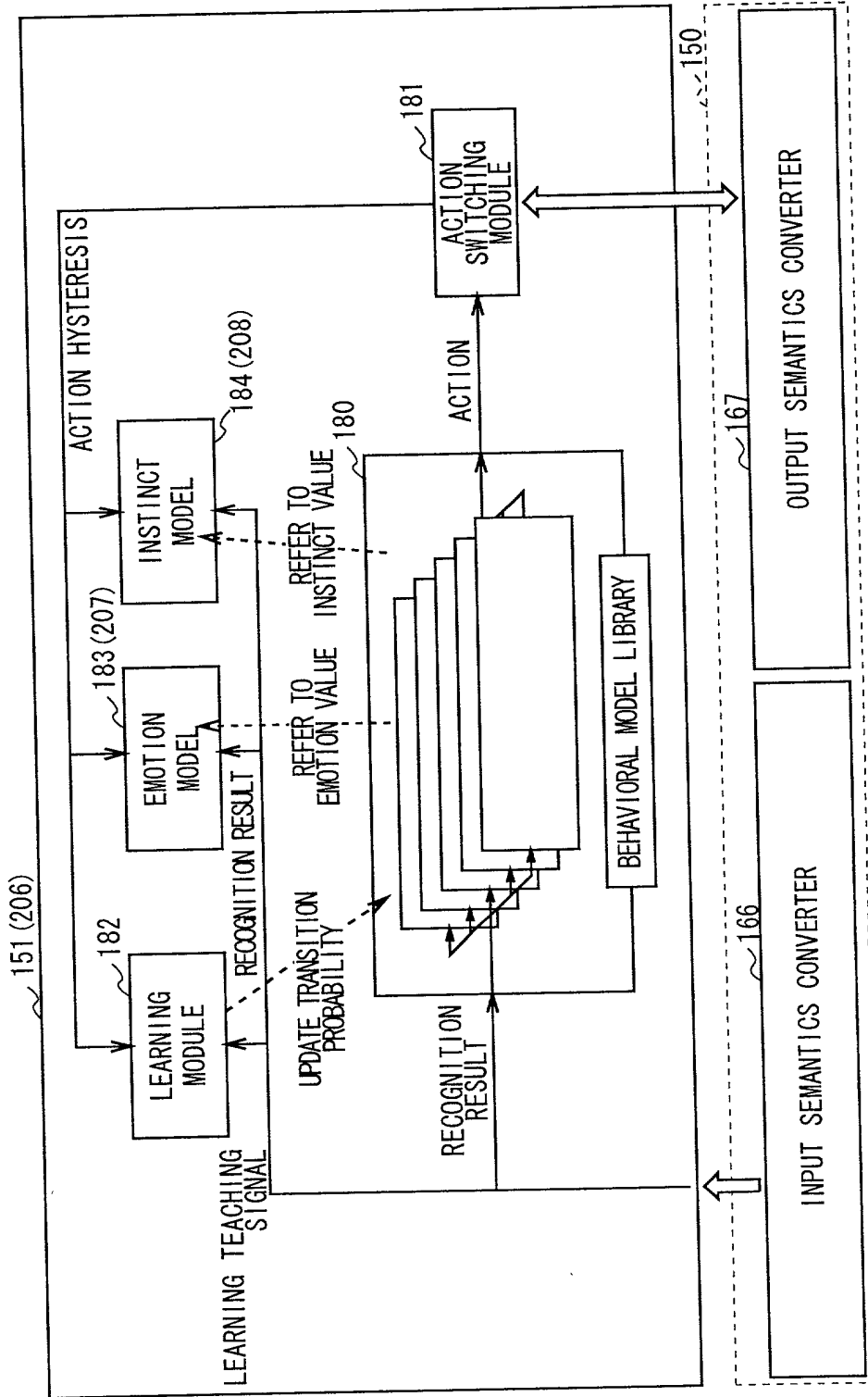


FIG. 22

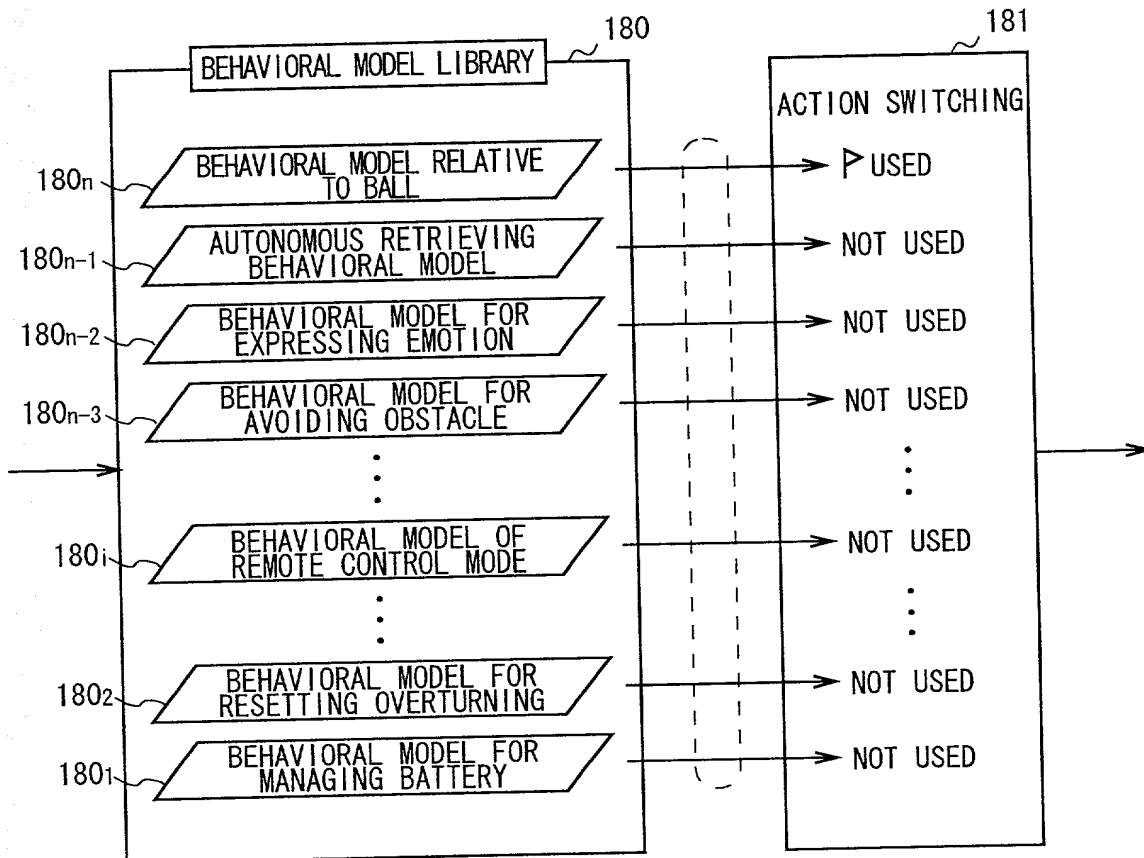


FIG. 23

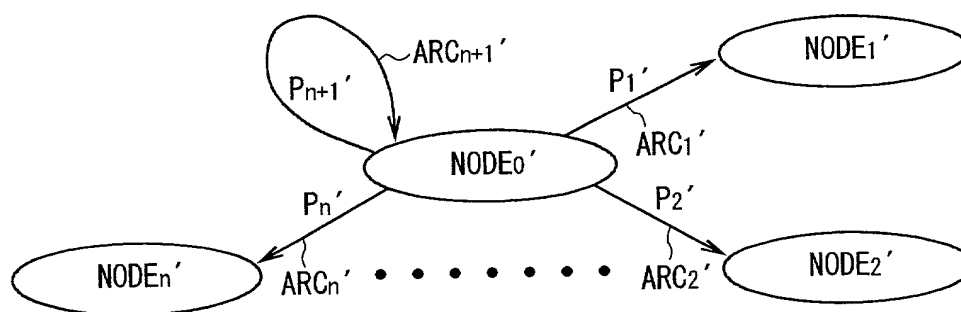


FIG. 24

INPUT EVENT		DATA NAME		RANGE OF DATA		TRANSITION PROBABILITY TO ANOTHER NODE D_i				
NAME						A	B	C	D	n
node 100						node 120	node 120	node 1000		node 600
						ACTION 1	ACTION 2	MOVE BACK		ACTION 4
1	BALL	SIZE	0.1000			30%				
2	PAT						40%			
3	HIT						20%			
4	MOTION							50%		
5	OBSTACLE	DISTANCE	0.100					100%		
6		JOY	50.100							
7		SUPRISE	50.100							
8		SADNESS	50.100							

TRANSITION TARGET NODE
OUTPUT ACTION

FIG. 25

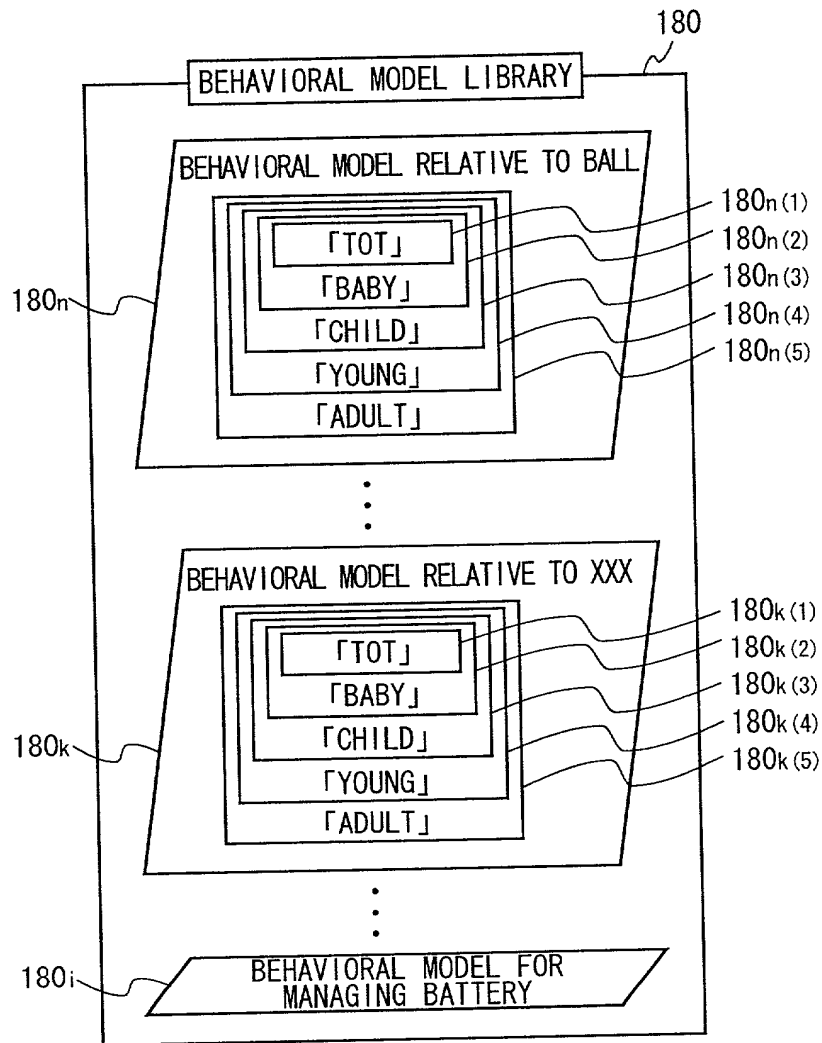


FIG. 26

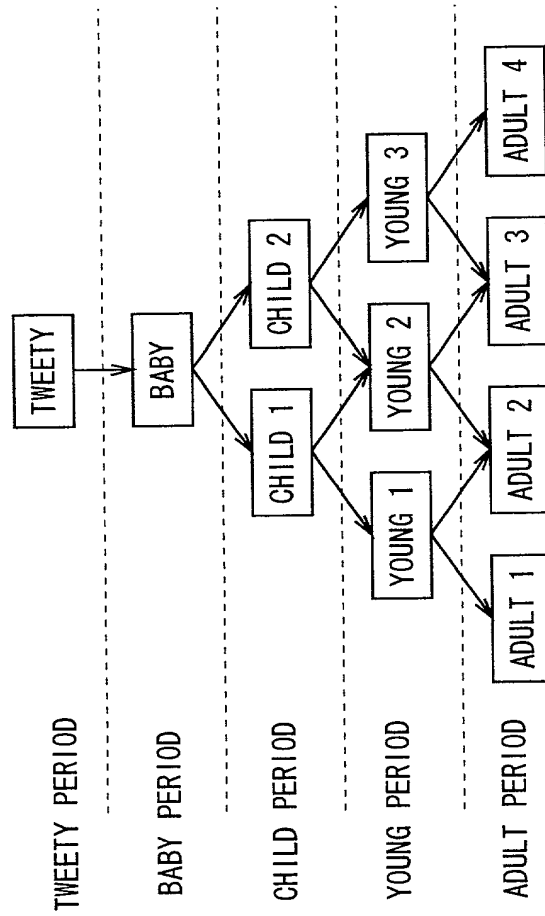


FIG. 27

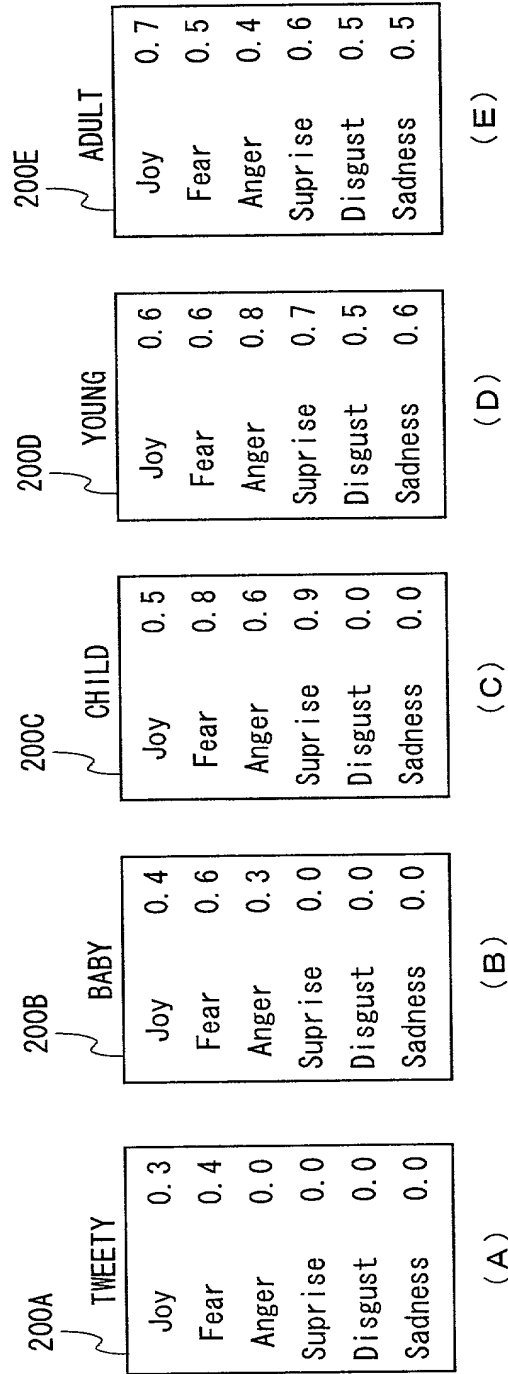


FIG. 28

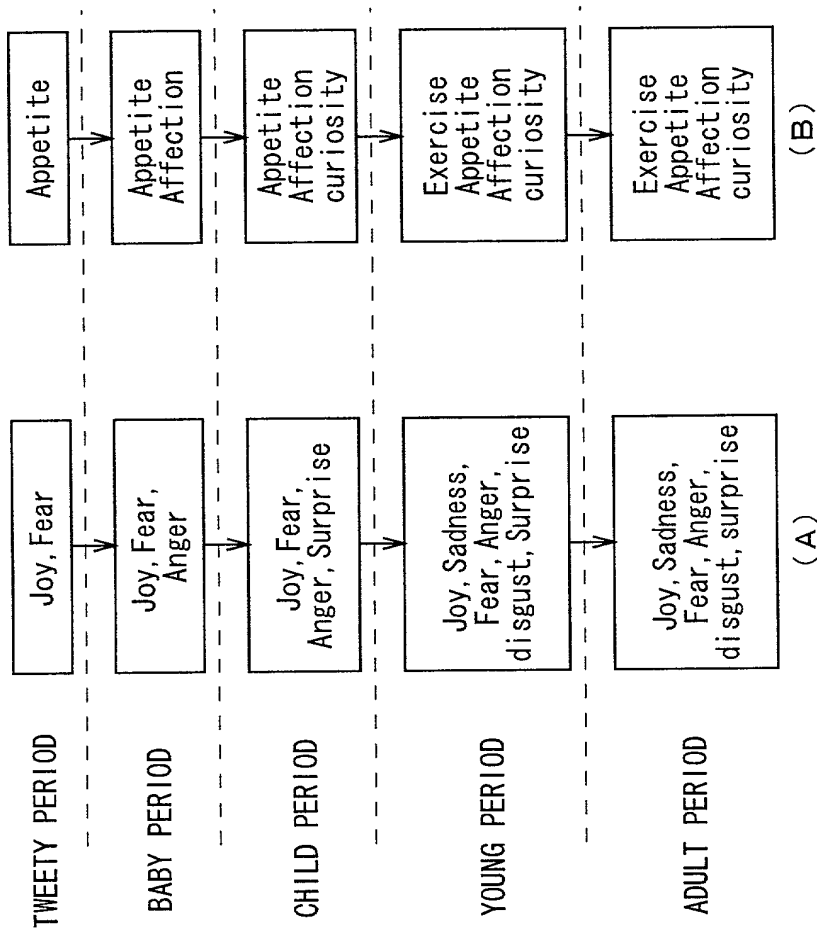


FIG. 29

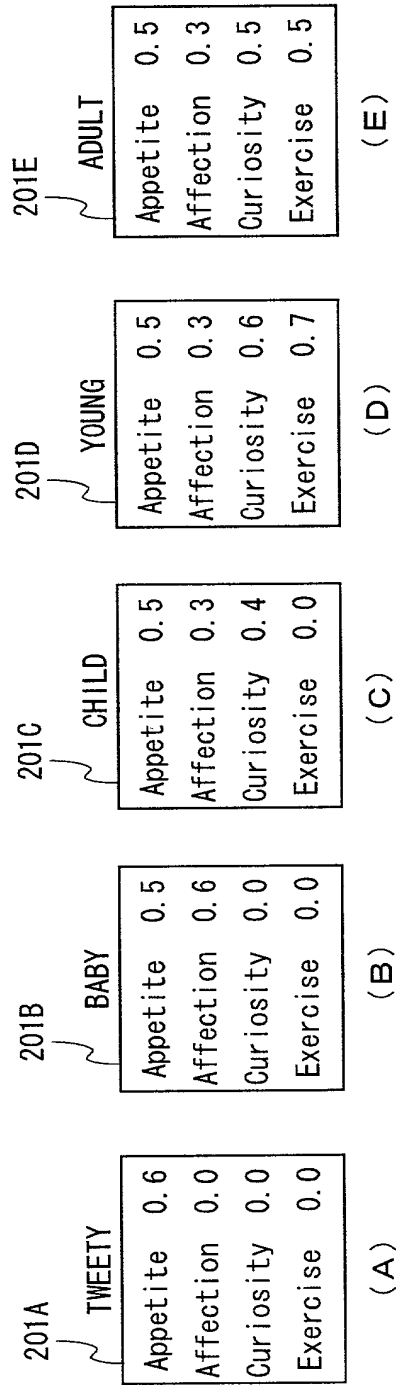


FIG. 30

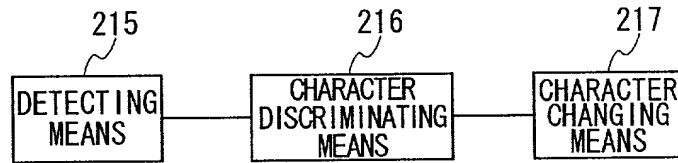


FIG. 31

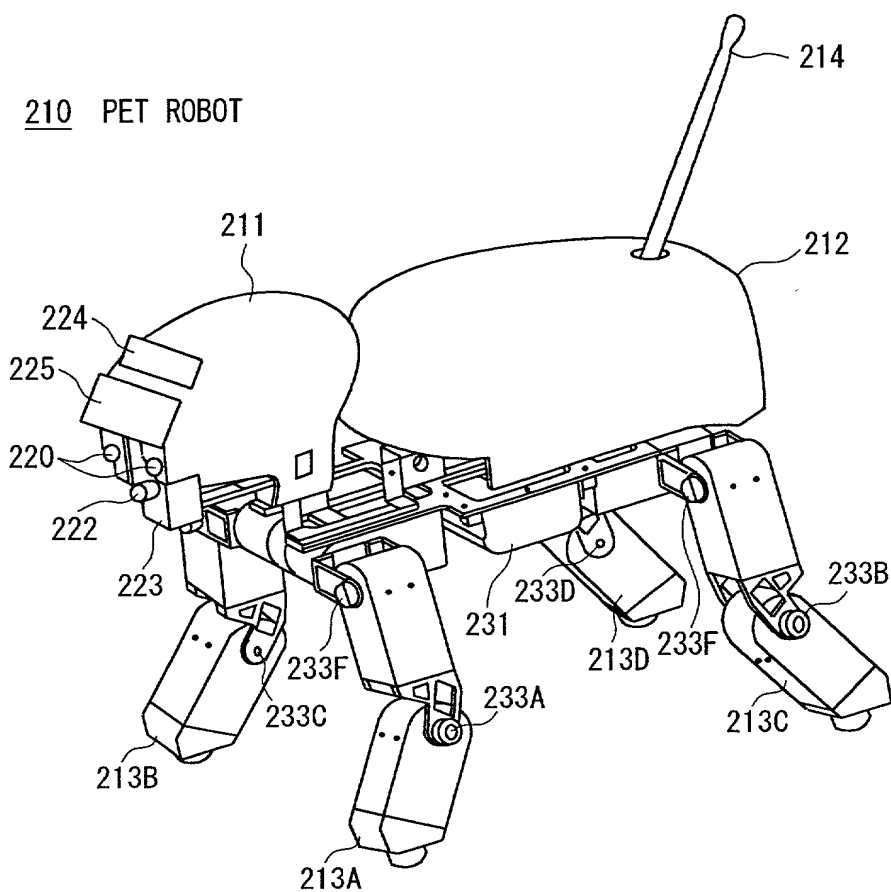


FIG. 32

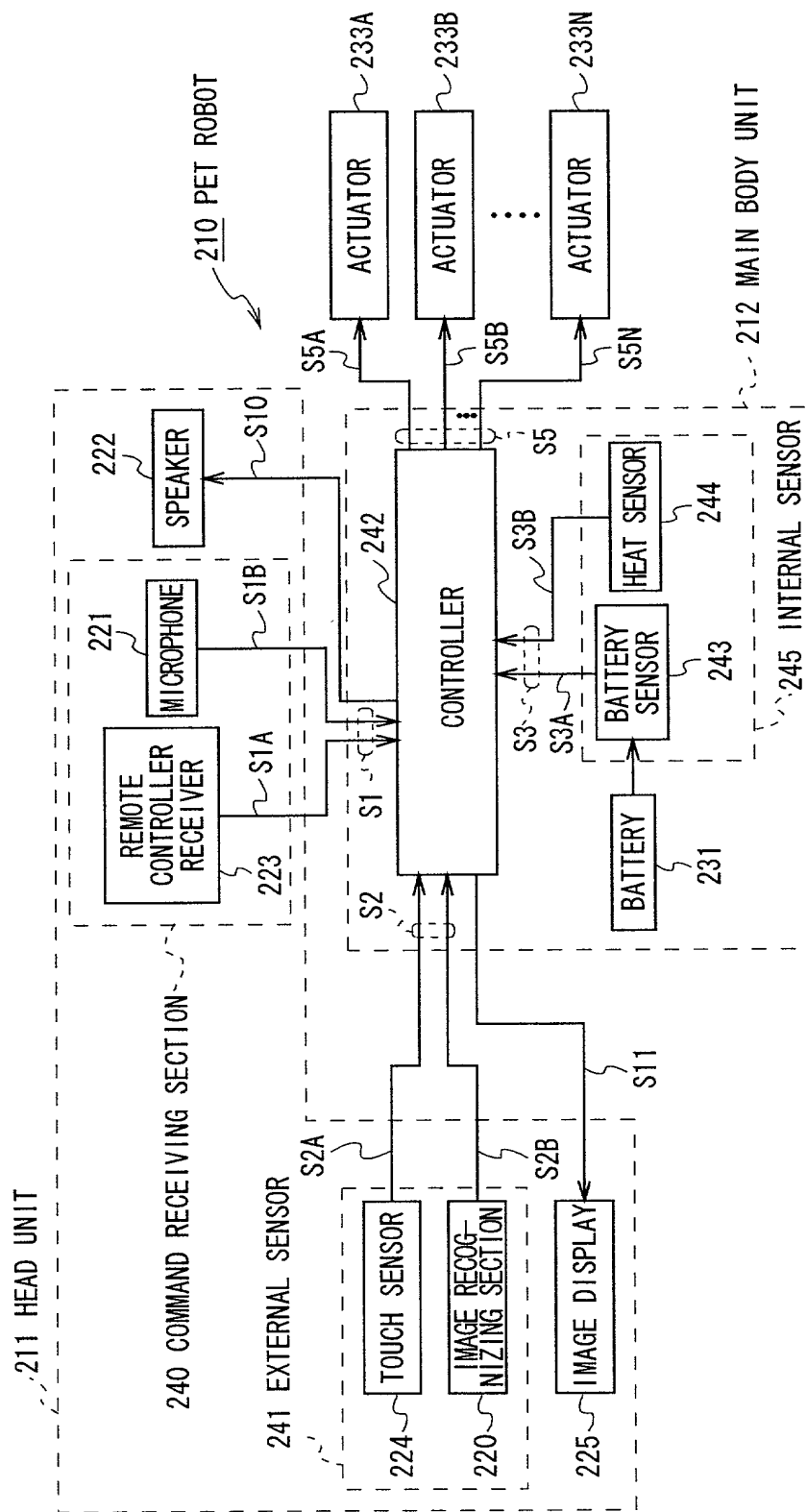


FIG. 33

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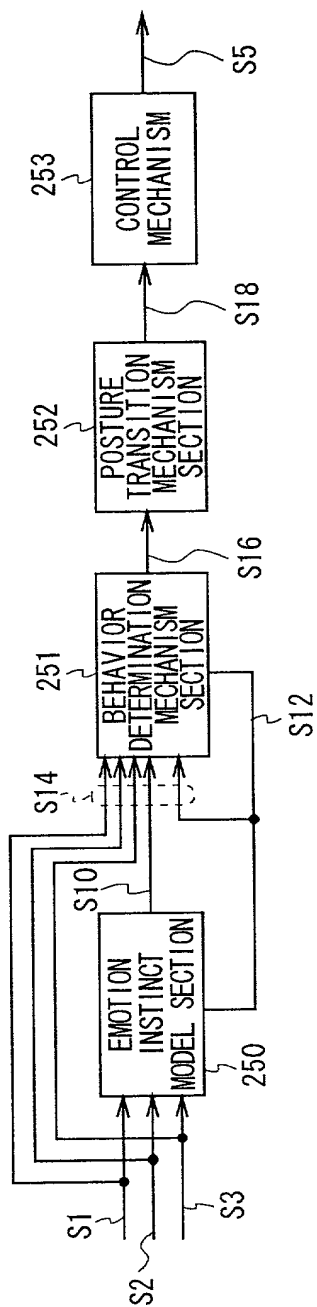


FIG. 34

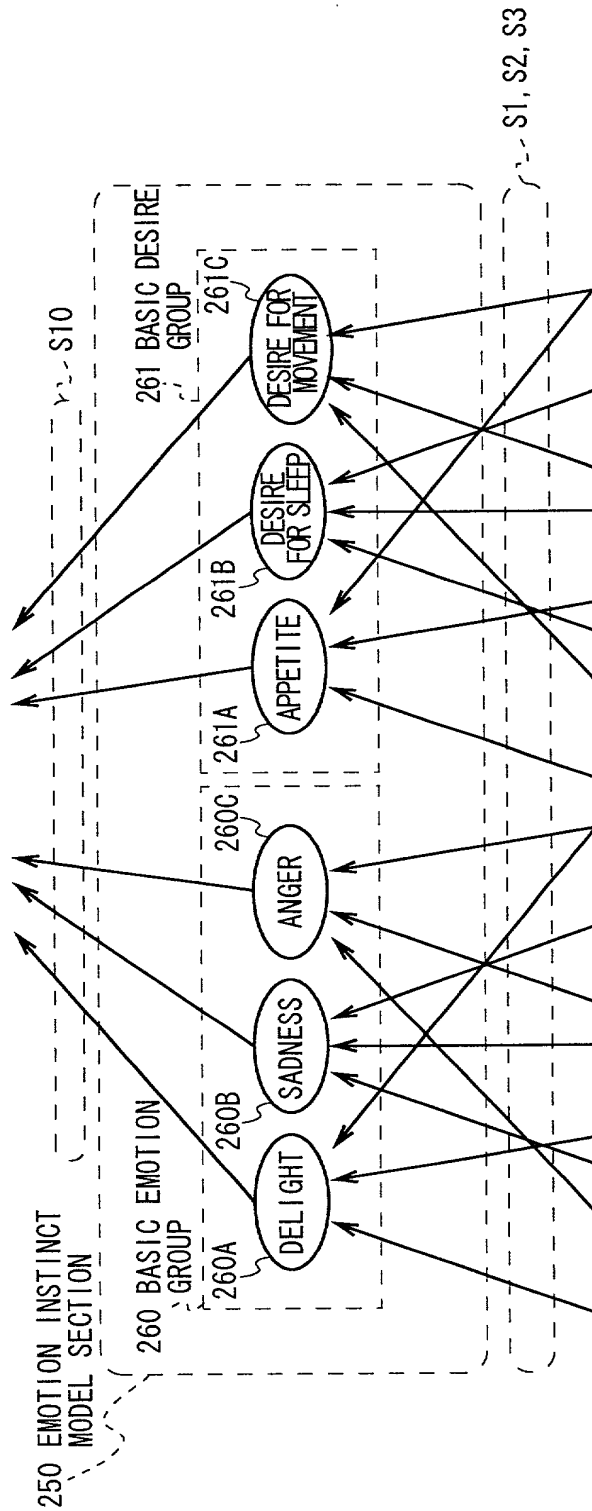


FIG. 35

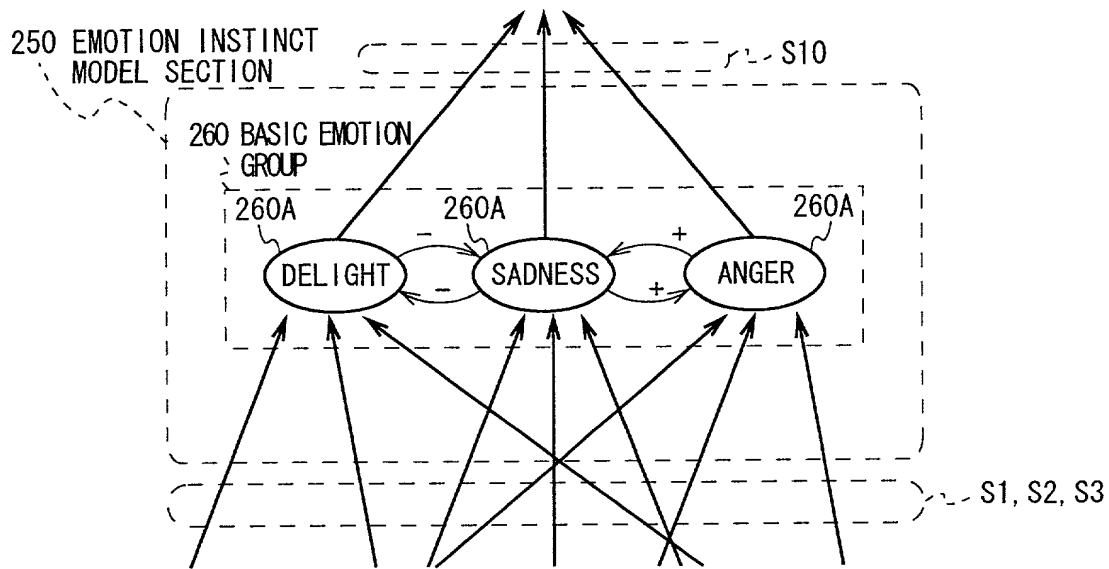


FIG. 36

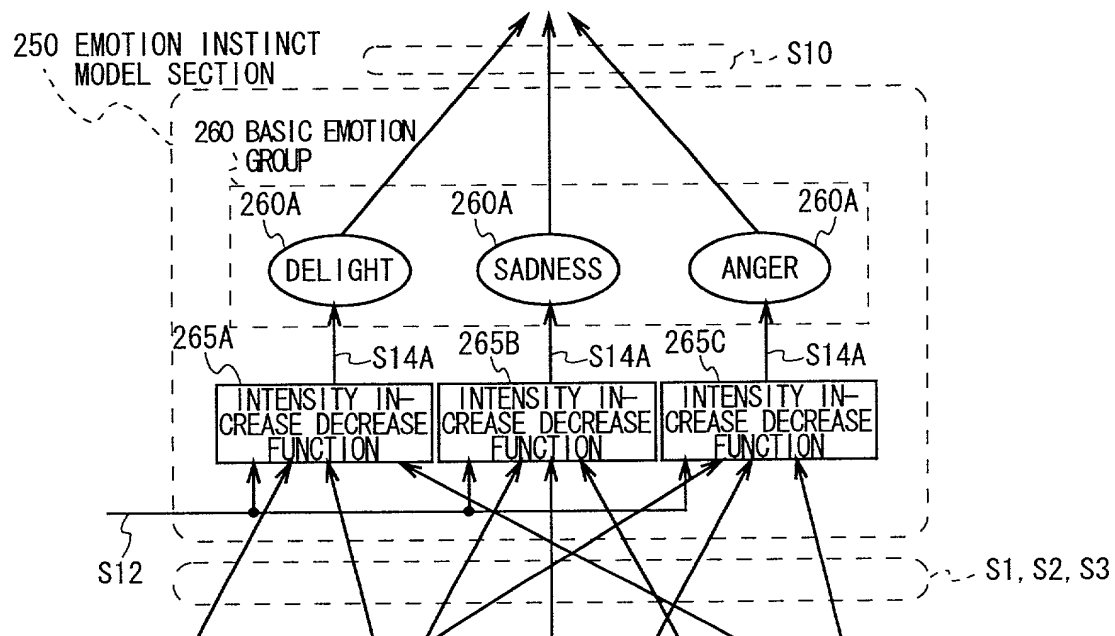


FIG. 37

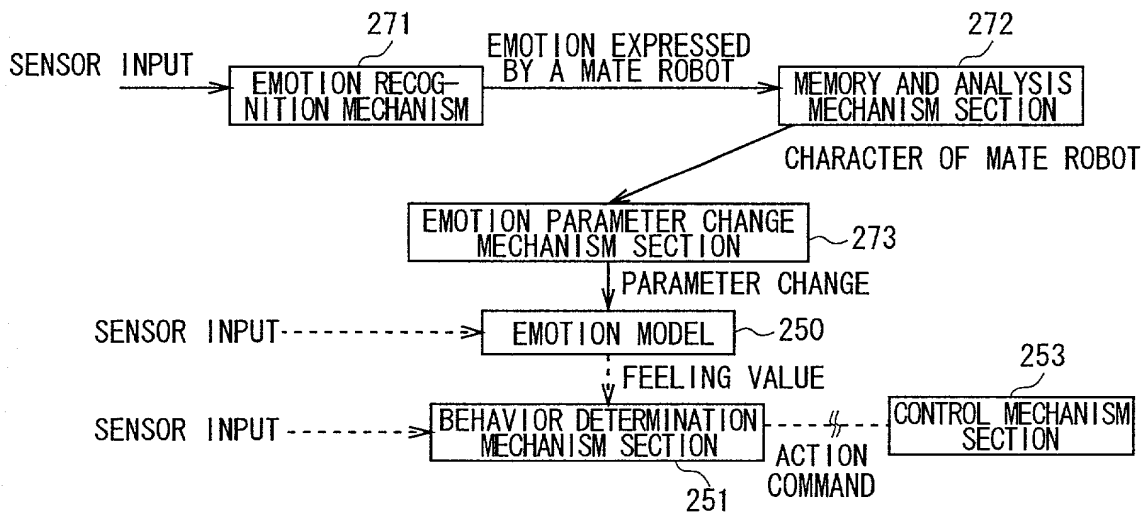


FIG. 38

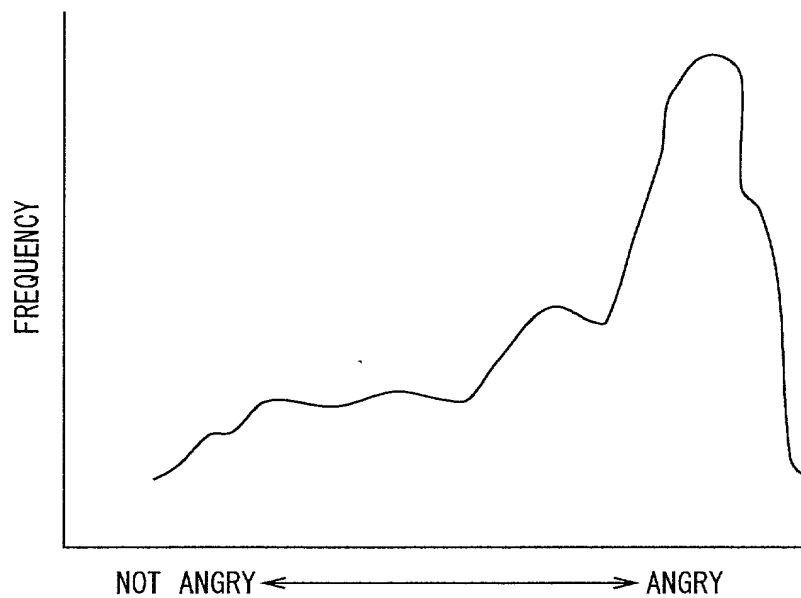


FIG. 39

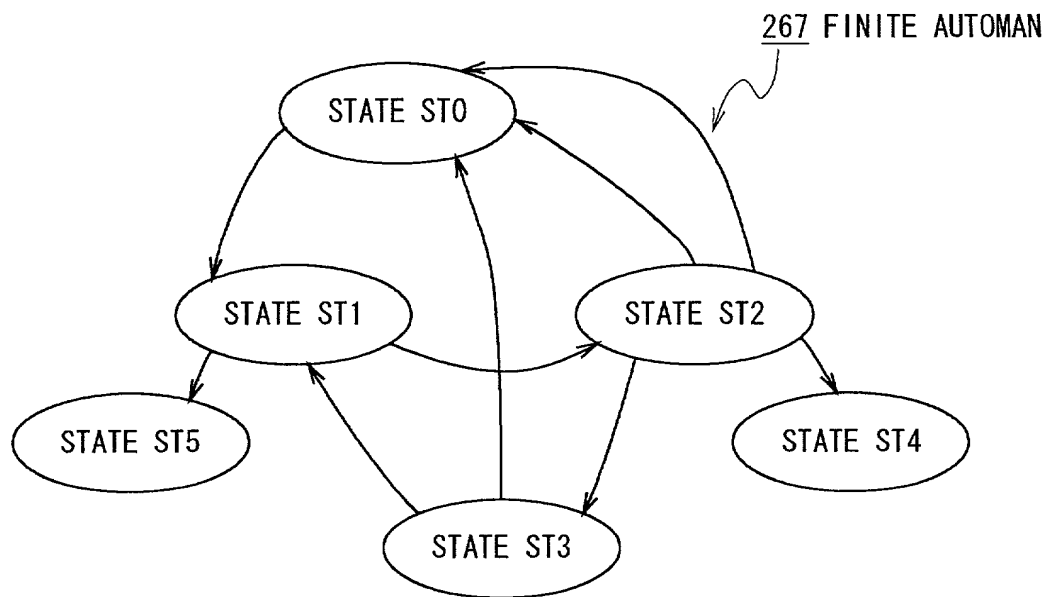


FIG. 40

270 DIRECTED GRAPH

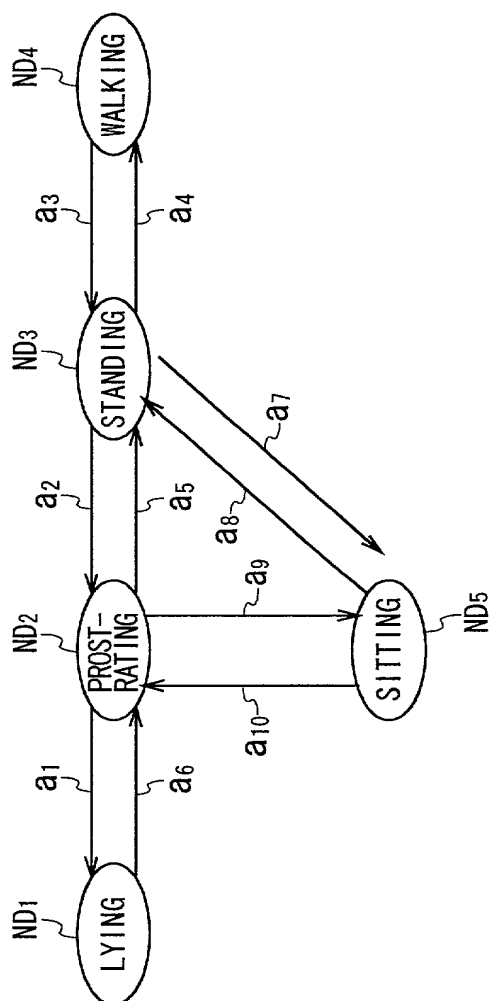


FIG. 41

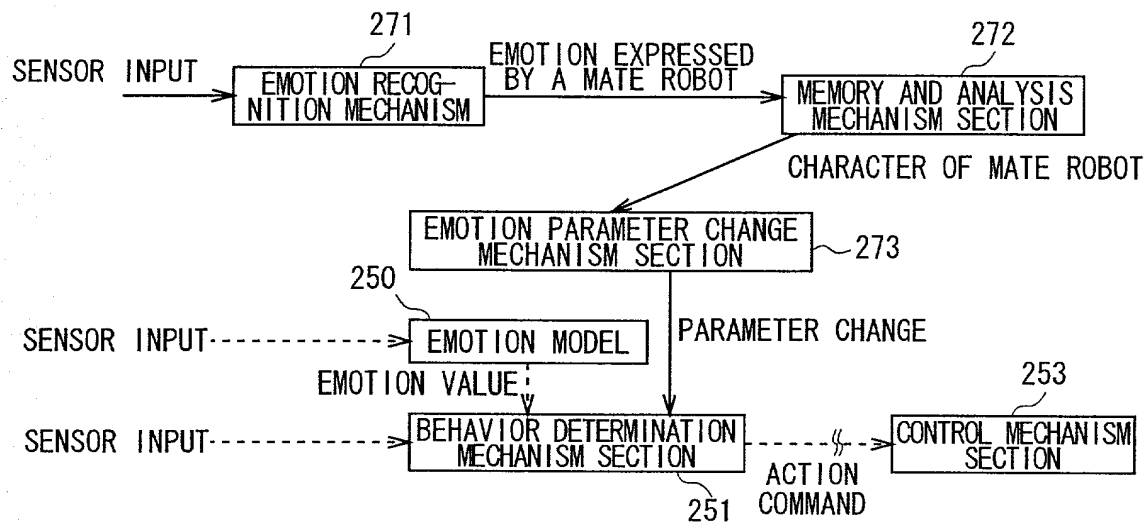


FIG. 42

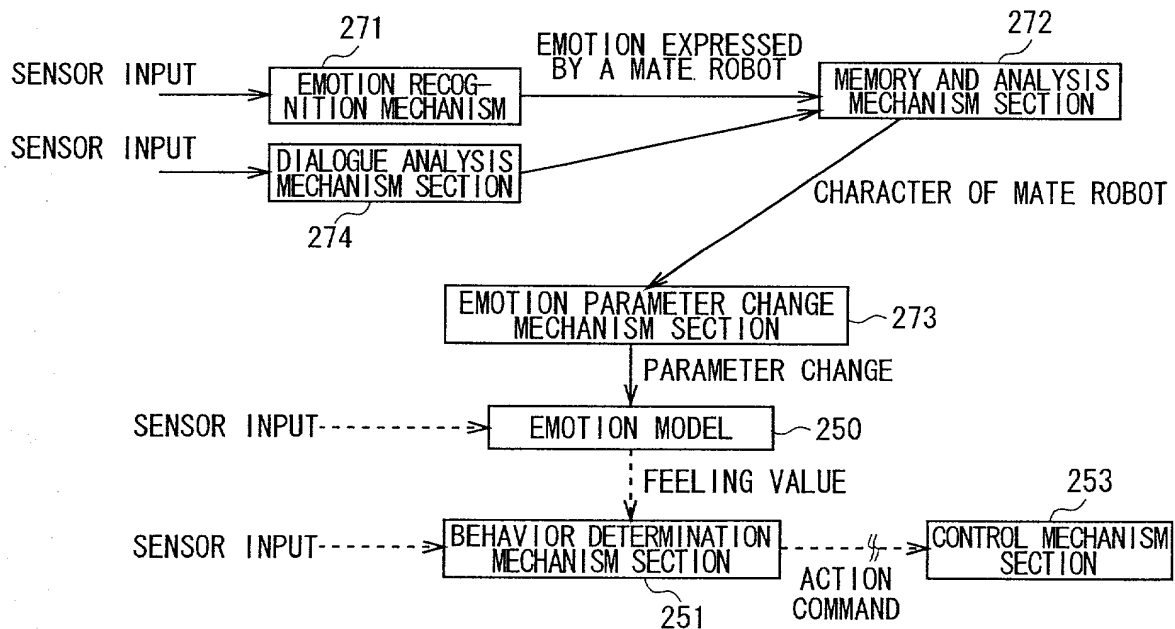
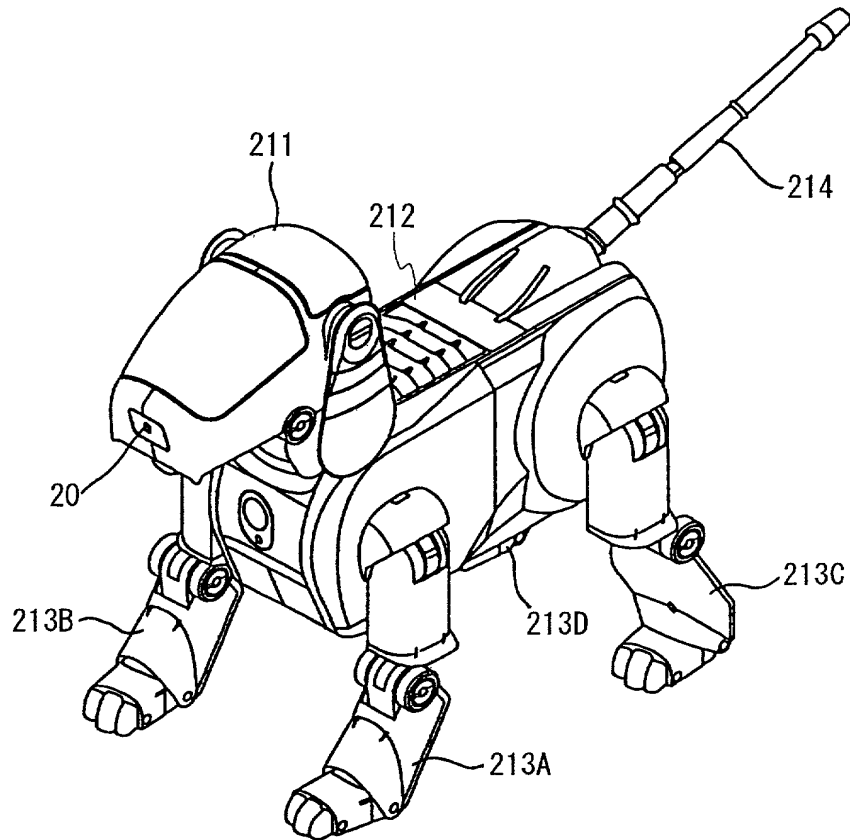


FIG. 43



210 PET ROBOT

FIG. 44

Explanation of Reference Numerals

1, 100, 110, 205, 210...pet robot, 10, 120, 242...CPU, 16, 126...control unit, 33, 143...virtual robot, 40, 150...middleware layer, 41, 151, 206...application layer, 70, 180...behavioral model library, 70_1 to 70_n , 70_k , $70_{k(1)}$ to $70_{k(5)}$, 180_1 to 180_n , 180_k , $180_{k(1)}$ to $180_{k(5)}$, $180_{n(1)}$ to $180_{n(5)}$...behavioral model, 91A to 91D, 103...difference file, 101...basic behavioral model, 102A to 102E...action pattern file, PA_1 to PA_n ...action pattern, $NODE_{K1}$ to $NODE_{Kn}$...virtual node, 200A to 200E...emotion parameter file, 201A to 201E...instinct parameter file, 72, 182...learning module, 73, 102, 183, 207...emotion model, 74, 103, 184, 208...instinct model, k_e to k_i ...coefficient, 215...detecting means, 216...character discriminating means, 217...character changing means, 270...emotion recognition mechanism section, 271...memory and analysis mechanism section, 273...emotion parameter change mechanism section, 274...dialogue analysis mechanism section.